

What is claimed is:

1. A steer-by-wire vehicle steering apparatus comprising:

a steering operator member electrically operatively connected to a
5 steerable road wheel;

drive means for steering the steerable road wheel, in response to
operation of said steering operator member, via the electric wire;

detection means for detecting a steering angle of said steering operator
member, an angle of travel direction of the vehicle and an actual steered angle
10 of the steerable road wheel steered by said drive means;

control means for controlling said drive section in response to detection
by said detection means in such a manner that the angle of travel direction of
the vehicle and the steering angle of said steering operator member agree with
each other; and

15 resistive force generation means for generating and imparting a steering
resistive force to said steering operator member in accordance with the actual
steered angle of the steerable road wheel detected by said detection means.

2. A steer-by-wire vehicle steering apparatus as claimed in claim 1 wherein
20 the steering resistive force is varied in accordance with a velocity of the vehicle.

3. A steer-by-wire vehicle steering apparatus as claimed in claim 1 wherein
the steering resistive force is varied in accordance with a product between a
target road-wheel steering angle and a velocity of the vehicle.

25 4. A steer-by-wire vehicle steering apparatus as claimed in claim 1 wherein
the steering resistive force is varied in accordance with a product between a
target road-wheel steering angle and a square of a velocity of the vehicle.